

EC Declaration of Conformity

We hereby declare that the following product is in conformity with the requirements of the following EC Directives:

Product: Type D4N, D4N·R, D4NH Series Safety Limit Switch, Safety Door Hinge Switch with Direct Opening Action

No. of Directive : 2006/42/EC including amendments Title of Directive : Machinery Safety Directive

This product is designed and manufactured in accordance with the following standards:

Machinery safety :	EN60947-5-1: 2004	
	EN1088: 1995+A2: 2008 clause 6.2.1.2,	
	EN115: 1995+A2: 2004, clause 14.1.2.2	

Description of Product

These devices feature direct opening action according to EN60947-5-1 and are intend for safety-related application in machinery.

Year of CE marking : 2003

Manufacturer :

Name :	Omron Corporation,				
	Industrial Automation Company,				
	Business Development Dept. Safety Division				
Address	: Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600- 8530 Japan				
Date	:, 2009				
Signed	: Kospinori Matsueda				
	Manager				
Representative in	EU:				
Name:	Omron Europe B.V.				
Address	Zilverenberg 2, 5234 GM' s. 'Hertogenbosch, The Netherlands				
Date:	15. 12 , 2009				
Signed:	Hugo Sintnicolaas				
	European Manufacturing and Quality Manager				
	European Manufacturing and Quanty Manager				

List of EC Declaration of Conformity

Type: D4N, D4N-R, D4NH series

EC DoC No. List of Documents No.			EMCZ034 EMCZ034-01	
Date	EC DoC No. or List of Documents No.	Rev.	Reason of revision	
05/11/21	EMCZ034	Α	Newly issued	
05/11/21	EMCZ034-01	А	Newly issued	
08/9/4	EMCZ034	В	Update the number of Applied Harmonized Standards	
08/9/4	EMCZ034-01	В	Update the number of Applied Harmonized Standards	
09/12/11	EMCZ034	С	Update the number of Applied Harmonized Standards and Directive and additional standard	
09/12/11	EMCZ034-01	С	Update the number of Applied Harmonized Standards and Directive and additional standard	
3				

CERTIFICATE

No. B 09 10 39656 192 Holder of Certificate:

Omron Corporation

Shiokoji Horikawa, Shimogyo-ku Kyoto 600-8530 JAPAN

Production Facility(ies): **Certification Mark:**



23708, 56891

Product:

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Model(s):

Parameters:

Limit Switches Limit Switch with / without Direct Opening Action D4N II-III IV V VI-VII (See Attachment 1 for Nomenclature)

AC:	240 VAC / 3A, 50-60 Hz (AC-15)			
DC:	250 VDC / 0,27A (DC-13)			
	See Suffix VII of attached nomenclature			
Protection class:	11			
Protection degree:	IP67 (IP65 for D4NA series only)			
Pollution degree:	3			
Overvoltage catego	ry: III			
Conditional Short (
Electrical durability	150000 Cycles			
Mechanical durabi	ty: 1000000 Cycles			
	See Suffix V of attached nomenclature			

Remark: 1. Meets the requirements of GS-ET-15:2005 2. When installing/inserting the equipment all requirements of the mentioned test standard must be fulfilled.

Tested according to:

EN 60947-5-1:2004

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.:

73508741 (Shigehisa Ishikawa)



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B N

Certificate Attachment 1 Certificate No.



B 09 10 39656 192

TYPE NOMENCLATURE: Nomenclature of Body

I: Basic type

- II: With or without lever shaft for door hinge
 - Blank: Without lever shaft
 - A: Without lever shaft (for the production in China)
 - H: With lever shaft for door hinge

III: Conduit Variation

m. Oonduit ve	manon						
1:	Pg13.5	(1 Conduit)					
2:	G1/2	(1 Conduit)					
3:	1/2-14NPT	(1 Conduit)					
4:	M20	(1 Conduit)					
5:	Pg13.5	(2 Conduits)					
6:	G1/2	(2 Conduits)					
7:	1/2-14NPT	(2 Conduits)					
8:	M20	(2 Conduits)					
9:	M12	(1 Conduit, with Plug)					
A:	M12	(2 Conduits, with Plug)					
B:	M12	(1 Conduit, with Connector)					
C:	M12	(2 Conduits, with Connector)					
IV: Switch Mechanism							
1:	1NC/1NO	(Snap action)					
2:	2NC	(Snap action)					
A:	1NC/1NO	(Slow action)					
B:	2NC	(Slow action)					
C:	2NC/1NO	(Slow action)					
D:	3NC	(Slow action)					
E;	1NC/1NO (Make Before Break)	(Slow action)					
F:	2NC/1NO (Make Before Break)	(Slow action)					
G:	2NO	(Slow action)					

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Certificate Attachment 1 Certificate No.

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V: Actuator 20: Roller lever (R26 / plastic lever / plastic roller) 21: Adjustable roller lever (R20 to R65 / metal lever / plastic roller) Roller lever (R26 / metal lever / plastic roller) 22: (R28 / metal lever / plastic roller) Roller lever 23: (R26 / metal lever / metal roller) Roller lever 25: (R26 / metal lever / bearing roller) 26: Roller lever (R31 to 65 / metal lever / rubber roller) Adjustable roller lever 27: (R31 to 80 / metal lever / rubber roller) 28: Adjustable roller lever 29: Rod lever Adjustable roller lever (R20 to 66 / metal lever / plastic roller) 2B: (form lock / R20 to 66 / metal lever / plastic roller) Adjustable roller lever 2G: (form lock / R32 to 66 / metal lever / rubber roller) 2H: Adjustable roller lever Roller lever (R26 / metal lever / plastic long roller) 2J: (form lock / R20 to 66 / metal lever / metal roller) 2L: Adjustable roller lever Plunger 31: 32: Roller plunger 34: Metal roller plunger One way roller lever (R20 / Ø12 x 5mm) (horizontal) 62: 63: One way roller lever (horizontal) (horizontal) * See Note 1 One way roller lever (R14,9 / Ø14 x 5mm) 64: One way roller lever (vertical) 72: Wobble lever 80: 87: Wobble lever plastic rod RE: Right side, Fork lever lock (R26 / rubber roller) Left side, Fork lever lock (R26 / rubber roller) LE: * See Note 2 Rotary shaft AS: (Ø8,5 hole) * See Note 2 Rotary shaft AS1: (Ø6 x 15mm) BC: Center lever * See Note 2 * Note 1) Mechanical Durability is 3000000 operations

* Note 2) Mechanical Durability is 1000000 operations

VI: With or without reset button

Blank: Without reset button

R: With reset button

VII: Customer Code

Blank: Standard

GP: Special code for model connected with Connector type XS2W-D421 #: Customer code

Maximum 6 digit number(s) and/or letter(s) except for GP

* Note) Rated voltage and current for D4N-9xxx-GP: 120VAC/3A (AC-15), 125VDC/0.22A (DC-13)

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Auxiliary Devices

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OMRON CORP

SAFETY STANDARDS GROUP IAB QUALITY & ENVIRONMENT DEPT SHIOKOJI HORIKAWA, SHIMOGYO-KU KYOTO, 600-8530 JAPAN



Door lock switch, Type D4GL followed by 1, 2, 3 or 4, followed by A through H or J through M, followed by B, F, L, R, D, E, G or H, followed by A, G or N, may be followed by A, B or C, may be followed by 4, may be followed by N, may be followed by additional letter(s) and/or number(s).

Door switches, Type D4BS followed by 1, followed by 1, followed by B, F, L or R, followed by S, followed by F, followed by 1, may be followed by additional letter(s) and/or number(s).

Type D4BL Series followed by 1, 2, 3, or 4, followed by C, D, E or F, followed by A, B, C, D, E, F or G, followed by blank, A, B, C, D, E or F, followed by blank, 12-30 or T, followed by blank or maximum 6 digits of letters and/or numbers.

Type D4GS may be followed by 1, 2, 3 or 4, may be followed by up to two letters and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-N followed by 1, 2, 3 or 4, followed by R or T, may be followed by 3, 5 or up to two letter and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-NK followed by 1, 2 or 4, may be followed by E, may be followed by up to six letters and/or numbers.

Type D4NL followed by 1, 2, 3 or 4, followed by A through H, J through N or P, followed by B, D, E, F, G, L or R, followed by A, B, C, D, E, F, G, H, J, K or L, may be followed by A through F, may be followed by 4, may be followed by S, may be followed by Z, may be followed by additional letter(s) and/or number(s).

Type D4NS followed by 1 through 9 or A, B or C, followed by A through F, followed by B, D, E, F, G, H, L or R, may be followed by additional letter (s) and/or number(s).

Type D4N may be followed by A or H, followed by 1 through 9 or A, B or C, followed by 1, 2 or A through G, followed by 20, 21, 21-TK, 22 through 29, 2B, 2C, 2D, 2G, 2H, 2J, 2L, 31, 32, 34, 62, 63, 72, 80, 87, RE, LE, AS, BC or AS1, may be followed by R, may be followed by additional letter (s) and/or number(s).

Type D4N, followed by blank, followed by 9, followed by 1, followed by 20, followed by GP.

Type D4JL, followed by 1, 2, 3 or 4, followed by A through H, J through N or P through R, followed by D or F, followed by A, G or K, followed by C or D, followed by 5, 6 or 7, followed by blank, followed by blank, Y or Z, may be followed by four alphanumeric code, may be followed by six digit maximum alphanumeric code.

Interlock relay, Cat. No. D9MCD1.

Limit switches, Type D4C may be followed by C, followed by 1, 2, 3, 4, 5 or 6, may be followed by additional suffix numbers.

Type D4C followed by 10, 20, 30, A0, C0 or D0, followed by a two digit number, followed by DRAJ01 or ARAJ01, may be followed by additional letters and/or numbers.

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Type D4BS followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 5, 6, 7, 8, A or B, followed by F, R, L or B, followed by S, may be followed by LD or LE, may be followed by additional numbers and/or letters.

Type D4A receptacle Cat. No. D4A- followed by 1000N through 6000N, 1000, 2000, 3000, 4000, 5000 or 6000, may be followed by additional numbers and/or letters; actuator head Cat. No. D4A-00 followed by 01N through 06N, 07-VN, 07-HN, 08N through 12N or 14N through 20N or 24N, may be followed by additional letters and/or numbers; body Cat. No. D4A-0 followed by 100N, 300N, 500N, 700N or 900N, may be followed by additional numbers and/or letters.

Type D4F followed by 1 through 5, followed by 0 or 2, followed by 0, 2, 3, G or H, followed by a number, followed by R, L or D, may be followed by letters and/or numbers.

Type D4A, followed by 3, may be followed by E, followed by 01-06, 07-V, 07-H, 08-12, 14-20 or 24, may be followed by N, followed by GM or KGM, may be followed by additional letter(s) and/or number(s).

Type SHL, followed by D, Q or W, with or without 1 or 2 digit number, followed by 55, followed by blank, followed by blank, L, L6 or L7, followed by blank, MD, ML or MR, followed by blank, 2 or 3, followed by blank, TC or TH, followed by blank or 11; followed by blank or T; followed by blank or up to six additional letters and/or numbers.

Type WL may be followed by R, may be followed by 01, may be followed by A or B, may be followed by M, followed by C#, D#, G#, H#, NJ# or SD#, where # is up to a ten digit symbol of letters and/or numbers, may be followed by 10, 31 or RP, may be followed by P1, may be followed by 55, may be followed by T, TC, TC2 or TH, may be followed by 13##, 14##, RP4##, RP5## or RP6##, where ## is a one or two digit symbol of letters and/or numbers, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by C, G, G, T, TS or Y, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by S, may be followed by DGJS03, DGJ##, DK1CJ###, DK1EJ###, M1J###, M1GJ###, M5J###, DHJS###, AGJ###, AK1EJ###, AK1J###, AK4LJ### or K###, where ### is up to a five digit symbol of letter(s) and/or number(s), may be followed by up to a five digit symbol of letters and/or numbers.

Type WL, may be followed by R, followed by C, D, G, H, NJ, or SD, followed by a number, may be followed by LD, followed by GM, KGM or K-GM, may be followed by additional letter(s) and/or number(s).

Type D4B-F, followed by 1, 2, 3 or 4, followed by 1, 2 or 3, followed by 11, 15, 1F or 1R, followed by F, may be followed by 1, followed by additional letter(s) and/or number(s).

Types ZE, ZV, ZV2 may be followed by -01 or Y, followed by N or Q, followed by 6 letters and/or numbers, may be followed by 2, may be followed by G, G1, S or Y, may be followed by TC or TH, may be followed by additional letters and/or numbers.

Type D4B followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 1, 2, 3, 4, 5, 6, 7, 8, A, B, C or D, followed by 1 thru 8 or 00, may be followed by up to two numbers or letters, followed by N, may be followed by LD or LE, may be followed by letters and/or numbers.

Magnetically actuated interloc switches, Models D40B-J1X, -J2X.

Magnetically actuated switches, Cat. Nos. D40B-1B3, D40B-1B10, D40B-1D3, D40B-1D10, D40B-A1, D40B-S1B3, D40B-S1B10, D40B-S1D3, D40B-S1D10, D40B-2B3, D40B-2B10, D40B-2D3, D40B-2D10, D40B-A2, D40B-S2B3, D40B-S2B10, D40B-S2D3, D40B-S2D10, D40B-3D5C, D40B-3E5C, D40B-S3D5C, D40B-S3E5C, D40B-J1, D40B-J2.

Non-contact safety door switch, Model(+) D40A-1C followed by 2 or 5.

Non-contact door switch, Actuator only Model D40A-A1.

Non-contact door switch, Sensor only Model D40A-S1C followed by 2 or 5.

Pendant enable switch, Model A4EG- followed by B or C, followed by 00, E1, E2, M2, P1 or P2, followed by 0, B, R, Y or G, followed by 0, followed by 1, 2 or 4, followed by 0 or 1, may be followed by A, may be followed by letters B through Z, b through z, and/or numbers.

Thermal overload relays, Cat. Nos. j7TL-D2, -E2, -F2, j7TL-D, -E, -F, -A, -B, -C.

Terminal relay, Model F3SP-T01.

(+) = Additional functional safety investigation was completed to UL 991 and IEC 60947-5-3.

Last Updated on 2009-10-22

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Auxiliary Devices Certified for Canada

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SAFETY STANDARDS GROUP IAB QUALITY & ENVIRONMENT DEPT SHIOKOJI HORIKAWA, SHIMOGYO-KU KYOTO, 600-8530 JAPAN E76675

Auxiliary contact blocks, Cat. Nos. J73L-B, J73L-C, J7L-BR.

Door lock switch, Type D4GL followed by 1, 2, 3 or 4, followed by A through H or J through M, followed by B, F, L, R, D, E, G or H, followed by A, G or N, may be followed by A, B or C, may be followed by 4, may be followed by N, may be followed by additional letter(s) and/or number(s).

Door switches, Type D4BL Series, followed by 1, 2, 3, or 4, followed by C, D, E or F, followed by A, B, C, D, E, F, or G, followed by blank, A, B, C, D, E, or F, followed by blank, 12-30, or T, followed by blank or maximum 6 digits of letters and/or numbers.

Type D4GS may be followed by 1, 2, 3, or 4, may be followed by up to two letters and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-N followed by 1, 2, 3 or 4, followed by R or T, may be followed by 3, 5 or up to two letter and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-NK followed by 1, 2 or 4, may be followed by E, may be followed by up to six letters and/or numbers.

, Type D4BS followed by 1, followed by 1, followed by B, F, L or R, followed by S, followed by F, followed by 1, may be followed by additional letter (s) and/or number(s).

Hand mixer, Model KJ-805.

Interlock relay, Cat. No. D9MCD1.

Limit switches, Type D4B-F, followed by 1, 2, 3 or 4, followed by 1, 2 or 3, followed by 11, 15, 1F or 1R, followed by F, may be followed by 1, followed by additional letter(s) and/or number(s).

Cat. No. D4C may be followed by C, followed by 1 or 2, may be followed by additional number or letters.

Type D4C may be followed by C, followed by 1, 2, 3, 4, 5 or 6, may be followed by additional suffix numbers.

Type D4C followed by 10, 20, 30, A0, C0 or D0 followed by a two digit number, followed by DRAJ01 or ARAJ01, may be followed by additional letter(s) and/or numbers.

Type D4BS followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 5, 6, 7, 8, A or B, followed by F, R, L or B, followed by S, may be followed by LD or LE, may be followed by additional numbers and/or letters.

Type D4A, Receptacle Cat. No. D4A- followed by 1000N through 6000N, 1000, 2000, 3000, 4000, 5000 or 6000, may be followed by additional numbers and/or letters; Actuator head Cat. No. D4A-00 followed by 01N through 06N, 07-HN, 07-VN, 08N through 12N or 14N through 20N or 24N, may be followed by additional letters and/or numbers; Body Cat. No. D4A-0 followed by 100N, 300N, 500N, 700N, 900N, may be followed by additional numbers and/or letters.

Type D4A, followed by 3, may be followed by E, followed by 01-06, 07-V, 07-H, 08-12, 14-20 or 24, may be followed by N, followed by GM or KGM, may be followed by additional letter(s) and/or number(s).

Type D4F, followed by 1 through 5, followed by 0 or 2, followed by 0, 2, 3, G or H, followed by a number, followed by R, L or D, may be followed by additional letters and/or numbers.

Type SHL, followed by D, Q or W, with or without 1 or 2 digit number, followed by 55, followed by a blank, followed by blank, L, L6 or L7, followed by blank, MD, ML or MR, followed by a blank, 2 or 3, followed by a blank, TC or TH, followed by blank or 11, followed by blank or T; followed by a blank or up to six additional letters and/or numbers.

Type WL may be followed by R, may be followed by 01, may be followed by A or B, may be followed by P, followed by C#, D#, G#, H#, NJ# or SD#, where # is up to a ten digit symbol of letters and/or numbers, may be followed by 10, 31 or RP, may be followed by P1, may be followed by 55, may be followed by T, TC, TC2 or TH, may be followed by 13##, PR4##, PR5## or RP6##, where ## is a one or two digit symbol of letters and/or numbers, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by S, may be followed by C, G, G1, TS or Y, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by S, may be followed by DGJS03, DGJ###, DK1CJ###, DK1EJ###, M1J###, M1GJ###, M5J###, DHJS###, AGJ###, AK1EJ####, AK1J###, AK4EJ### or K###, where ### is up to a five digit symbol of letter(s) and/or number(s), may be followed by up to a five digit symbol of letters and/or numbers.

Type WL, may be followed by R, followed by C, D, G, H, NJ, or SD, followed by a number, may be followed by LD, followed by GM, KGM or K-GM, may be followed by additional letter(s) and/or number(s).

Types ZE, ZV, ZV2 may be followed by -01 or Y, followed by N or Q, followed by six letters and/or numbers, may be followed by 2, may be followed by G, G1, S or Y, may be followed by TC or TH, may be followed by additional letters and/or numbers.

Type D4B followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 1, 2, 3, 4, 5, 6, 7, 8, A, B, C or D, followed by 1 thru 8 or 00, may be followed by up to two numbers or letters, followed by N, may be followed by LD or LE, may be followed by letters and/or numbers.

Magnetically actuated switches, Cat. Nos. D40B-1B3, D40B-1B10, D40B-1D3, D40B-1D10, D40B-A1, D40B-S1B3, D40B-S1B10, D40B-S1D3, D40B-S1D10, D40B-2B3, D40B-2B10, D40B-2D3, D40B-2D10, D40B-A2, D40B-S2B3, D40B-S2B10, D40B-S2D3, D40B-S2D10, D40B-3D5C, D40B-3E5C, D40B-S3D5C, D40B-S3E5C, D40B-J1, D40B-J2.

Non-Contact Safety Door Switch, Model(+) D40A-1C, followed by 2 or 5.

Non-contact door switch, Actuator only Model D40A-A1.

Non-contact door switch, Sensor only Model D40A-S1C followed by 2 or 5.

Pendant enable switch, Model A4EG- followed by B or C, followed by 00, E1, E2, M2, P1 or P2, followed by 0, B, R, Y or G, followed by 0, followed by 1, 2 or 4, followed by 0 or 1, may be followed by A, may be followed by letters B through Z, b through z, and/or numbers.

Switches, Type D4NL followed by 1, 2, 3 or 4, followed by A through H, J through N or P, followed by B, D, E, F, G, L or R, followed by A, B, C, D, E, F, G, H, J, K or L, may be followed by A through F, may be followed by 4, may be followed by S, may be followed by Z, may be followed by additional letter(s) and/or number(s).

Type D4NS followed by 1 through 9 or A, B or C, followed by A through F, followed by B, D, E, F, G, H, L or R, may be followed by additional letter (s) and/or number(s).

Type D4N may be followed by A or H, followed by 1 through 9 or A, B or C, followed by 1, 2 or A through G, followed by 20, 21, 21-TK, 22 through 29, 2B, 2C, 2D, 2G, 2H, 2J, 2L, 31, 32, 34, 62, 63, 72, 80, 87, RE, LE, AS, BC or AS1, may be followed by R, may be followed by additional letter (s) and/or number(s).

Type D4N, followed by blank, followed by 9, followed by 1, followed by 20, followed by GP.

Type D4JL, followed by 1, 2, 3 or 4, followed by A through H, J through N or P through R, followed by D or F, followed by A, G or K, followed by C or D, followed by 5, 6 or 7, followed by blank, followed by blank, Y or Z, may be followed by four alphanumeric code, may be followed by 6 digit maximum alphanumeric code.

Terminal relay, Model F3SP-T01.

Thermal overload relays, Cat. Nos. j7TL-D2, -E2, -F2, 7TL-D, -E, -F, -A, -B, -C.

(+) = Additional functional safety investigation was completed to UL 991 and IEC IEC 60947-5-3.



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Last Updated on 2009-10-22

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Drives & Motion Controls

- Servo & AC Drives
 Motion Controllers & Encoders
- **Temperature & Process Controllers**
- Single and Multi-loop Controllers

Sensors & Vision

- Proximity Sensors
 Photoelectric Sensors
 Fiber-Optic Sensors
- Amplified Photomicrosensors
 Measurement Sensors
- Ultrasonic Sensors
 Vision Sensors

Industrial Components

- RFID/Code Readers
 Relays
 Pushbuttons
 Indicators
- Limit and Basic Switches
 Timers
 Counters
 Metering Devices
- Power Supplies

Safety

• Laser Scanners • Safety Mats • Edges and Bumpers • Programmable Safety Controllers • Light Curtains • Safety Relays • Safety Interlock Switches